Raw Sequence Listing Error Summary

ERROR DETECTED   SUGGESTED   CORRECTION   SERIAL NUMBER: _____

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics — The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

2 _____ Wrapped Aminos — The amino acid number/text at the end of each line "wrapped " down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

3 _____ Incorrect Line Length — The rules require that a line not exceed 72 characters in length. This includes spaces.

4 _____ Misaligned Amino Acid Numbering — The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
between the numbering. It is recommended to delete any tabs and use spacing between the numbers.

5 _____ Non-ASCII — This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

6 _____ Variable Length — Sequence(s) ____ contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.

7 _____ PatentIn ver. 2.0 "bug" — A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) _____. Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence. **This applies primarily to the mandatory <220>-<223>
sections for Artificial or Unknown sequences.**

8 _____ Skipped Sequences (OLD RULES) — Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence.
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s)

9 _____ Skipped Sequences (NEW RULES) — Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

10 _____ Use of n's or Xaa's (NEW RULES) — Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

11 _____ Use of <213>Organism (NEW RULES) — Sequence(s) _____ are missing this mandatory field or its response.

12 ✓ Use of <220>Feature (NEW RULES) — Sequence(s) ___ are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of new Rules)

13 _____ PatentIn ver. 2.0 "bug" — **Please do not use "Copy to Disk" function of PatentIn version 2.0.** This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING   DATE: 10/10/2000
PATENT APPLICATION: US/09/676,053   TIME: 10:09:19

Input Set - A:\17044 DIV SEQLIST.txt
Output Set - N:\CRF3\10102000\I676053.raw

See pp. 1, 2, 3

```
     <110> APPLICANT: Dolly, James Oliver
            Ask, Robert Roy
            Ghanem, Larry Allen
            Foster, Michael Elwood
     <120> TITLE OF INVENTION: MODIFICATION OF CLOSTRIDIAL TOXINS FOR
            USE AS TRANSPORT PROTEINS
     <130> FILE REFERENCE: 17044DIV
C--> 15 <140> CURRENT APPLICATION NUMBER: US/09/676,053
C--> 15 <141> CURRENT FILING DATE: 2000-09-28
     <150> PRIOR APPLICATION NUMBER: 09/750,101
     <151> PRIOR FILING DATE: 1993-05-31
     <150> PRIOR APPLICATION NUMBER: PCT/GB/01003
     <151> PRIOR FILING DATE: 1993-05-31
     <150> PRIOR APPLICATION NUMBER: GB 9410871 0
     <151> PRIOR FILING DATE: 1994-05-31
     <150> PRIOR APPLICATION NUMBER: GB 9410871 1
     <151> PRIOR FILING DATE: 1991-05-31
     <160> NUMBER OF SEQ ID NOS: 19
     <170> SOFTWARE: PatentIn for Windows Version
     <210> SEQ ID NO: 1
     <211> LENGTH: 33
     <212> TYPE: DNA
     <213> ORGANISM: Artificial Sequence
W--> 36 <220> FEATURE:
W--> 36 <223> OTHER INFORMATION:
     <400> SEQUENCE: 1
     aaaatacatc acatc tact aacataat aat                                33
     <210> SEQ ID NO: 2
     <211> LENGTH: 31
     <212> TYPE: DNA
     <213> ORGANISM: Artificial Sequence
W--> 44 <220> FEATURE:
W--> 44 <223> OTHER INFORMATION:
     <400> SEQUENCE: 2
     aaagaagc tttataac aattcatta ta                                   32
     <210> SEQ ID NO: 3
     <211> LENGTH:
     <212> TYPE: DNA
     <213> ORGANISM: Artificial Sequence
W--> 52 <220> FEATURE:
W--> 52 <223> OTHER INFORMATION:
     <400> SEQUENCE: 3
     tagtacatat ataaatgcat acattaatan                                 30
     <210> SEQ ID NO: 4
     <211> LENGTH: 29
     <212> TYPE: DNA
     <213> ORGANISM: Artificial Sequence
```

Missing numbers of <220> <223>

Also need to explain the source of the Artificial sequence

See #12 in the summary of the

RAW SEQUENCE LISTING DATE: 10/10/2000
PATENT APPLICATION US/09/676,053 TIME: 16:00:17

Input Set A:\17044 DIV SEQLIST.txt
Output Set N:\CRF3\10102000\I676053.raw

```
W--> 60 <220> FEATURE:
W--> 60 <223> OTHER INFORMATION:
     60 <400> SEQUENCE  1
     1  ttatacatgt actacataat
     3 <210> SEQ ID NO: 1
     4 <211> LENGTH: 20
     5 <212> TYPE: DNA
     6 <213> ORGANISM: Artificial Sequence
W--> 68 <220> FEATURE:
W--> 68 <223> OTHER INFORMATION:
     68 <400> SEQUENCE  2
        aaagccttt tattaataaa caa
     71 <210> SEQ ID NO: 2
     72 <211> LENGTH: 19
     73 <212> TYPE: DNA
     75 <213> ORGANISM: Artificial Sequence
W--> 76 <220> FEATURE:
W--> 76 <223> OTHER INFORMATION:
     76 <400> SEQUENCE  3
        ggaattctta cttattgtat tttta
     79 <210> SEQ ID NO: 3
     80 <211> LENGTH: 19
     81 <212> TYPE: DNA
     82 <213> ORGANISM: Artificial Sequence
W--> 84 <220> FEATURE:
W--> 84 <223> OTHER INFORMATION:
     84 <400> SEQUENCE  4
     85 gcacatgaac ttatatat
     87 <210> SEQ ID NO: 4
     88 <211> LENGTH: 18
     89 <212> TYPE: DNA
     91 <213> ORGANISM: Artificial Sequence
W--> 92 <220> FEATURE:
W--> 92 <223> OTHER INFORMATION:
     93 <400> SEQUENCE  5
     93 atgtataagt taatatac
     95 <210> SEQ ID NO: 5
     96 <211> LENGTH: 18
     97 <212> TYPE: DNA
     98 <213> ORGANISM: Artificial Sequence
W--> 100 <220> FEATURE:
W--> 100 <223> OTHER INFORMATION:
     100 <400> SEQUENCE  6
     101 aacttatata tgttaac
     103 <210> SEQ ID NO: 6
     104 <211> LENGTH: 18
     105 <212> TYPE: DNA
     106 <213> ORGANISM: Artificial Sequence
W--> 108 <220> FEATURE:
```

refer to p. 1

file: C:\CRF3\Outhold\Vsrl676053.htm   10 10 00

```
                    RAW SEQUENCE LISTING              DATE: 10/10/2000
                    PATENT APPLICATION   US/09/676,053   TIME: 16:05:19

                    Input Set : A:\17044 DIV SEQLIST.txt
                    Output Set: N:\CRF3\10102000\I676053.raw

W--> 108  <223> OTHER INFORMATION:
     108  <400> SEQUENCE  10
     109  gtcaagcata tataagtt                                    18
     111  <210> SEQ ID NO  11
     112  <211> LENGTH: 13
     113  <212> TYPE: PRT
     114  <213> ORGANISM: Unknown
W--> 116  <220> FEATURE:
W--> 116  <223> OTHER INFORMATION:
     115  <400> SEQUENCE  11
     117  Cys Ala Asn Gln Arg Ala Thr Lys Met Leu Gly Ser Gly
     118  1                                       10
     120  <210> SEQ ID NO  12
     121  <211> LENGTH  29
     122  <212> TYPE: DNA
     123  <213> ORGANISM  Artificial Sequence
W--> 125  <220> FEATURE:
W--> 125  <223> OTHER INFORMATION:
     125  <400> SEQUENCE  12
     126  attcagcga aaccataaa taattttag                         29
     128  <210> SEQ ID NO  13
     129  <211> LENGTH  28
     130  <212> TYPE  DNA
     131  <213> ORGANISM  Artificial Sequence
W--> 133  <220> FEATURE:
W--> 133  <223> OTHER INFORMATION:
     133  <400> SEQUENCE  13
     134  cgggatcctt ctatataatt ataaat                          26
W--> 135  17044DIV  PATENT
W--> 136  Serial No. Not yet assigned
     .11 .
```

refer to p.1

Extraneous material at end of file must be deleted. If it is causing would count errors in sequence #13

VERIFICATION SUMMARY   DATE: 10/10/2000
PATENT APPLICATION   US/09/676,053   TIME: 1:

Input Set: A:\17044 DIV SEQLIST.txt
Output Set: N:\CRF3\10102000\I676053.raw

```
L 15 M:210 C: Current Application Number differs  Replaced Current Application No
L 16 M:211 C: Current Filing Date differs  Replaced Current Filing Date
L 36 M:258 W: Mandatory Feature missing.  220  FEATURE:
L 36 M:258 W: Mandatory Feature missing.  223  OTHER INFORMATION
L 41 M:258 W: Mandatory Feature missing.  220  FEATURE:
L 41 M:258 W: Mandatory Feature missing.  223  OTHER INFORMATION
L 52 M:258 W: Mandatory Feature missing.  220  FEATURE:
L 52 M:258 W: Mandatory Feature missing.  223  OTHER INFORMATION
L 60 M:258 W: Mandatory Feature missing.  220  FEATURE:
L 60 M:258 W: Mandatory Feature missing.  223  OTHER INFORMATION
L 69 M:258 W: Mandatory Feature missing.  220  FEATURE:
L 69 M:258 W: Mandatory Feature missing.  223  OTHER INFORMATION
L 76 M:258 W: Mandatory Feature missing.  220  FEATURE:
L 76 M:258 W: Mandatory Feature missing.  223  OTHER INFORMATION
L 84 M:258 W: Mandatory Feature missing.  220  FEATURE:
L 84 M:258 W: Mandatory Feature missing.  223  OTHER INFORMATION
L 92 M:258 W: Mandatory Feature missing.  220  FEATURE:
L 92 M:258 W: Mandatory Feature missing.  223  OTHER INFORMATION
L 100 M:258 W: Mandatory Feature missing.  220  FEATURE:
L 100 M:258 W: Mandatory Feature missing.  223  OTHER INFORMATION
L 108 M:258 W: Mandatory Feature missing.  220  FEATURE:
L 108 M:258 W: Mandatory Feature missing.  223  OTHER INFORMATION
L 116 M:258 W: Mandatory Feature missing.  220  FEATURE:
L 116 M:258 W: Mandatory Feature missing.  223  OTHER INFORMATION
L 125 M:258 W: Mandatory Feature missing.  220  FEATURE:
L 125 M:258 W: Mandatory Feature missing.  223  OTHER INFORMATION
L 133 M:258 W: Mandatory Feature missing.  220  FEATURE:
L 133 M:258 W: Mandatory Feature missing.  223  OTHER INFORMATION
L 135 M:334 W: (2) Invalid Amino Acid in Coding Region. NUMBER OF INVALID KEYS:2
L 136 M:336 W: Invalid Amino Acid Number in Coding Region. SEQ ID.13
L 136 M:334 W: (2) Invalid Amino Acid in Coding Region. NUMBER OF INVALID KEYS:4
```